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**Phase 1 Clinical Development of IO-202, A First-in-Class Antibody Targeting LILRB4, for the Treatment of AML with Monocytic Differentiation and CMML**

**Grant Award Details**

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Phase 1 Clinical Development of IO-202, A First-in-Class Antibody Targeting LILRB4, for the Treatment of AML with Monocytic Differentiation and CMML

**Grant Type:** Clinical Trial Stage Projects

**Grant Number:** CLIN2-12149

**Investigator:**

<b>Name:</b>	Joseph Woodard
<b>Institution:</b>	Immune-Onc Therapeutics
<b>Type:</b>	PI

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**Disease Focus:** Acute Myeloid Leukemia , Blood Cancer, Cancer

**Award Value:** \$6,000,000

**Status:** Pre-Active

**Grant Application Details**

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**Application Title:** Phase 1 Clinical Development of IO-202, A First-in-Class Antibody Targeting LILRB4, for the Treatment of AML with Monocytic Differentiation and CMML

**Public Abstract:****Therapeutic Candidate or Device**

IO-202, a first-in-class antibody targeting leukocyte immunoglobulin-like receptor B4 (LILRB4), an immune inhibitory receptor

**Indication**

Acute myeloid leukemia (AML) with monocytic differentiation and chronic myelomonocytic leukemia (CMML)

**Therapeutic Mechanism**

IO-202 is the first T-cell activator for AML. Preclinical studies showed that IO-202 can convert a "don't kill me" to "kill me" signal by activating T cell killing of AML cells and a "don't find me" to "find me" signal by inhibiting leukemia infiltration.

**Unmet Medical Need**

AML is the most common acute leukemia in adults. Nearly 20,000 new cases are expected in the U.S. in 2020. Despite advances in treatment, less than 30 percent of AML patients are alive five years after initial diagnosis. CMML is a malignant hematopoietic stem cell disorder with dismal survival.

**Project Objective**

Proposed Phase 1 study completed

**Major Proposed Activities**

Conduct a Phase 1 study to evaluate IO-202 in relapsed/refractory patients with AML with monocytic differentiation and CMML.

**Statement of Benefit to California:**

Evaluating IO-202, a first-in-class therapeutic, in this Phase 1 study will generate a wealth of new scientific data on the biology of a novel target LILRB4, and provide a greater understanding of the pathology and clinical outcomes for AML with monocytic differentiation and CMML. If successful, the development of IO-202 will help prolong patient survival, improve patient quality of life, reduce the economic burden of AML and CMML and the personal burden on caregivers and relatives.

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**Source URL:** <https://www.cirm.ca.gov/our-progress/awards/phase-1-clinical-development-io-202-first-class-antibody-targeting-lilrb4>